GEC JOURNAL OF SCIENCE & TECHNOLOGY

INDEX TO VOLUME 40, 1973

THE GENERAL ELECTRIC COMPANY LIMITED

INDEX

volume 40, 1973

Inclusive page numbers for the year's issues are:

No. 1 ..... 1 to 44
No. 2 ..... 45 to 88
No. 3 ..... 89 to 132
No. 4 ..... 133 to 180

PAGE

A

Air-traffic control—Experimental automation of, at the Bretigny Eurocontrol Centre 134
'Anchor'—Integrated production control of a steelworks: the computer hierarchy at 46
Application of integrated-circuit techniques to microwave receivers 52
Associative memory—The: a versatile circuit element 119
Automation of large-scale systems—Multi-level control for 37

B

Behaviour of incandescent tungsten filaments during life 17
Bretigny Eurocontrol Centre—Experimental automation of air-traffic control, at the 134

C

Communication by geostationary satellites: the proposed European system 2
Commutation in traction motors—Mechanical aspects of 99
Computer control—Dynamic, of a hot wide steel strip mill 108
Computer hierarchy at 'Anchor', the—Integrated production control of a steelworks 46
Control—Multi-level, for automation of large-scale systems 37

D

Designing and commissioning of a mobile 14 MW gas-turbine generator 141
Development of long last-stage turbine blades 65
Drying transformer insulation in service 166
Dynamic computer control of a hot wide steel strip mill 108

PAGE

E

Electroluminescent panels for displays—New 159
Electromagnetic pumps and flowmeters for fast-reactor development 10
Electronics in a.c. and d.c. traction systems—Power 171
European system—Communication by geostationary satellites: The proposed 2
Evaluation of characteristics of a.c. stator windings 25
Experimental automation of air-traffic control, at the Bretigny Eurocontrol Centre 134

F

Ferroresonance in a disconnected e.h.v. power system 79
Filaments—Behaviour of incandescent tungsten, during life 17

G

Gallium arsenide Schottky-barrier diodes—Some aspects of high-burnout 126
Gas-cooled nuclear-reactor control, protection and data presentation—Progress in 149
Gas-turbine generator—Designing and commissioning of a mobile 14 MW 141
Geostationary satellites—Communication by: the proposed European system 2

H

High-burnout gallium arsenide Schottky-barrier diodes—Some aspects of 126
Homopolar machines—Iron-cored, in marine propulsion systems 106

PAGE

I

Insulation in service—Drying transformer 166
Integrated-circuit techniques—Application of, to microwave receivers 52
Integrated production control of a steelworks: the computer hierarchy at 'Anchor' 46
Iron-cored homopolar machines in marine propulsion systems 106

K

Keyboard—An optically encoded solid-state 72

M

Marine propulsion systems—Iron-cored homopolar machines in 106
'Mark II' stored-program control: application to CCITT No. 6 field trials 33
Mechanical aspects of commutation in traction motors 99
Memory—The associative: a versatile circuit element 119
Microwave receivers—Application of integrated-circuit techniques to 52
Mobile 14 MW gas-turbine generator—Designing and commissioning of a 141
Multi-level control for automation of large-scale systems 37
Multiplexing—New techniques in: alternatives to f.d.m. and t.d.m. 59

N

New electroluminescent panels for displays 159
New techniques in multiplexing: alternatives to f.d.m. and t.d.m. 59
Nuclear-reactor control, protection and data presentation—Progress in gas-cooled 149

O

Optically encoded solid-state keyboard—An 72

P

Power electronics in a.c. and d.c. traction systems 171
Power system—Ferroresonance in a disconnected e.h.v. 79

PAGE

P *continued*

Progress in gas-cooled nuclear-reactor control, protection and data presentation 149
Pumps and flowmeters—Electromagnetic, for fast-reactor development 10

R

Rail telecommunications for the Motherwell complex 98
Railway re-signalling for electrification on British Railways Scottish Region 90
Reactor development—Electromagnetic pumps and flowmeters for fast- 10

S

Satellites—Communication by geostationary: the proposed European system 2
Signalling—Railway; for electrification on British Railways Scottish Region 90
Some aspects of high-burnout gallium arsenide Schottky-barrier diodes 126
Stator windings, a.c.—Evaluation of characteristics of 25
Steel strip mill—Dynamic computer control of a hot wide 108
Steelworks—Integrated production control of a: the computer hierarchy at 'Anchor' 46
Stored-program control—'Mark II': application to CCITT No. 6 field trials 33
Synopses 44, 88, 132, 180

T

Technical literature 43, 87, 179
Telecommunications—Rail, for the Motherwell complex 98
Traction motors—Mechanical aspects of commutation in 99
Traction systems—Power electronics in a.c. and d.c. 171
Transformer insulation in service—Drying 166
Tungsten filaments—Behaviour of incandescent, during life 17
Turbine blades—Development of long last-stage 65

AUTHORS

	PAGE
Allan, D. J.	166
Band, C. E.	171
Brown, D.	141
Bunton, G. V.	72
Childs, B. M.	10
Craig, H. R. M.	65
Davies, J. A.	46
Eades, C. G.	108
Franklin, E. B.	166
Goldsbrough, J. V.	90
Hansom, A. M.	126
Hobson, G.	65
Law, H.	149
Leakey, D. M.	59
Lewis, D. L.	99, 106
Moys, B. A.	17
Oxley, T. H.	52, 126
Robins, W. P.	2
Rouse, R. L.	159
Shaw, D. A.	108
Shead, C. J.	119
Shuttleworth, A. E.	33
Speed, R. F. B.	33
Stephen, D. D.	25
Sutton, R. W.	37
Swallow, G. H.	126
Waddington, F. B.	166
Wale, G. D.	79
Walkden, A. J.	99
Worby, R. H.	134
Young, R. G.	33